# QC ABSTRACT

**NAME OF WORK:** Filling of Potholes in ward 07 Byatarayanapura

| SL NO | Item Of Work | Name of Test | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|---|---|---|---|---|---|---|
| | | **Materials** | | | | |
| 1 | WMM | Sieve Analysis | One Test | | 1 | 1 |
| | | Impact Value | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| 2 | BC | SIEVE ANALYSIS | One Test | | 1 | 1 |
| | | STRIPPING VALUE | One Test | | 1 | 1 |
| | | Flakiness Index | One Test | | 1 | 1 |
| | | Elongation Index | One Test | | 1 | 1 |
| | | IMPACT VALUE | One Test | | 1 | 1 |
| | | Specific gravity | One Test | | 1 | 1 |
| | | Water Absorption | One Test | | 1 | 1 |
| | | Marshal Stability | One Test | | 1 | 1 |
| | | Marshal flow | One Test | | 1 | 1 |
| | | Percent air Voids | One Test | | 1 | 1 |
| | | Percent Voids in mineral | One Test | | 1 | 1 |
| | | Percent Voids filled with Bitumen | One Test | | 1 | 1 |
| | | Density | One Test | | 1 | 1 |
| | | Gradation | One Test | | 1 | 1 |
| 3 | BITUMEN | Ductility | One Test | | 1 | 1 |
| | | Softening Point | One Test | | 1 | 1 |
| | | Penetration | One Test | | 1 | 1 |
| | | Flash Point | One Test | | 1 | 1 |
| | | Fire Point | One Test | | 1 | 1 |
| 4 | TACK COAT | Rate of spread | One Test | | 1 | 1 |

Assistant Executive Engineer
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Bangalore - 560 092

# TEST RESULTS OF GRADATION FOR WMM

**Lab ID** : **CP-RW-2021-08-17-20** **Date: 07-05-21**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Filling of Potholes in ward 07 Byatarayanapura

**Agency** : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore -32

**Customer Reference** : BBMP/EE/BTP/WO/24/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 05-05-21

**Type of Mix** : WMM ( Wet Mix Macadam)

**Date of Test** : 05-05-21

**Oven Dry Weight** : 11000 Grams

| IS Sieve Size(mm) | Weight Retained (gm) | Cumulative Weight Retained (gm) | % Cumulative Weight Retained | % Passing | Spec.I.Vide Table 400.13 MORTH Specification |
|---|---|---|---|---|---|
| 53 | 0 | 0 | 0.0 | 100.0 | 100 |
| 45 | 315 | 315 | 2.9 | 97.1 | 95-100 |
| 22.4 | 2259 | 2574 | 23.4 | 76.6 | 60-80 |
| 11.2 | 2179 | 4753 | 43.2 | 56.8 | 40-60 |
| 4.75 | 2251 | 7004 | 63.7 | 36.3 | 25-40 |
| 2.36 | 1621 | 8625 | 78.4 | 21.6 | 15-30 |
| 0.6 | 623 | 9248 | 84.1 | 15.9 | 8-22 |
| 0.075 | 1338 | 10586 | 96.2 | 3.8 | 0-5 |

* The results obtained are satisfactory as per standard requirements.

**Note:-**

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# TEST REPORT OF AGGEGRATE IMPACT VALUE
## IS: 2386 Part IV

| | | | |
|---|---|---|---|
| **Lab ID** | : | **CP-RW-2021-08-17-20** | **Date: 07-05-21** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. | |
| **Address** | : | Kodigehalli Sub Division, BBMP, Bangalore. | |
| **Project Name** | : | Filling of Potholes in ward 07 Byatarayanapura | |
| **Agency** | : | Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore -32 | |
| **Customer Reference** | : | BBMP/EE/BTP/WO/24/2020-21 | |
| **Source of Sample** | : | Sample supplied by Agency | |
| **Sample Condition** | : | Satisfactory | |
| **Date of Receipt** | : | 05-05-21 | |
| **Type of Mix** | : | Coarse Aggregate for WMM ( Wet Mix Macadam) | |
| **Date of Test** | : | 05-05-21 | |

| Sl.No | Particulars of observations | Index | TEST 1 | TEST 2 |
|---|---|---|---|---|
| 1 | Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve) | A | 300.2 | 300.2 |
| 2 | Weight of fraction passing 2.36mm sieve After giving 15 blows | B | 73.9 | 74.0 |
| 3 | weight of fraction retained 2.36mm sieve After giving 15 blows | C | 225.9 | 225.8 |
| 4 | Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made. | A-(B+C) | 0.4 | 0.4 |
| 5 | Aggregate impact value | (B/A)*100 | 24.6 | 24.7 |
| 6 | Aggregate impact value ( Mean of two tests) | Pecentage | 24.6 | |

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# DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007 )

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2021-08-17-20** **Date: 07-05-21** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Filling of Potholes in ward 07 Byatarayanapura |
| **Agency** | : | Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore -32 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/24/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 05-05-21 |
| **Type of Mix** | : | Coarse Aggregate for WMM ( Wet Mix Macadam) |
| **Date of Test** | : | 05-05-21 |

**Result:**

| Index | Percentage of Flakiness and Elongation Index | Secified limits as per MORTH specification table 400-12 |
|---|---|---|
| Flakiness Index | 12.8% | Combined Flakiness & Elongation Index for WMM is Maximum 35% |
| Elongation Index | 12.5% | |
| Combined Flakiness and Elongation Index for WMM | 25.3% | |

* The results obtained are satisfactory as per standard requirements.

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## TEST RESULTS OF GRADATION FOR BC
## IS 2386 (Part 1) 1963 (RA 2007 )

**Lab ID** : **CP-RW-2021-08-17-20** **Date: 17-05-21**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Filling of Potholes in ward 07 Byatarayanapura

**Agency** : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore -32

**Customer Reference** : BBMP/EE/BTP/WO/24/2020-21

**Source of Sample** : Sample supplied by Agency

**Sample Condition** : Satisfactory

**Date of Receipt** : 15-05-21

**Type of Mix** : BC-Plant (Bituminous Concrete)

**Date of Test** : 15-05-21

**Oven Dry Weight** : 5000 Grams

| IS Sieve Size (mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Secified limits as per MORTH specification table 500-17(grading-2) |
|---|---|---|---|---|---|
| 19 | 0 | 0 | 0.0 | 100.0 | 100 |
| 13.2 | 89 | 89 | 1.8 | 98.2 | 90-100 |
| 9.5 | 702 | 791 | 15.8 | 84.2 | 70-88 |
| 4.75 | 895 | 1686 | 33.7 | 66.3 | 53-71 |
| 2.36 | 587 | 2273 | 45.5 | 54.5 | 42-58 |
| 1.18 | 492 | 2765 | 55.3 | 44.7 | 34-48 |
| 0.6 | 503 | 3268 | 65.4 | 34.6 | 26-38 |
| 0.3 | 528 | 3796 | 75.9 | 24.1 | 18-28 |
| 0.15 | 458 | 4254 | 85.1 | 14.9 | 12-20 |
| 0.075 | 350 | 4604 | 92.1 | 7.9 | 4-10 |
| PAN | 396 | 5000 | 100 | 0.0 | 0 |

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# TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2021-08-17-20** **Date: 18-05-21** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Filling of Potholes in ward 07 Byatarayanapura |
| **Agency** | : | Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore -32 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/24/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 15-05-21 |
| **Type of Mix** | : | BC(Bitumenous Concrete) |
| **Date of Test** | : | 15-05-21 |

| | | |
|---|---|---|
| **Type of Binder** | : | 60/70 |
| **% of Binder Used** | : | 5.0% |
| **Weight of Aggregate** | : | 200.0 gm |
| **Weight of Binder** | : | 10.0 gm |
| **Temperature of water bath** | : | 40°C |

| No of test | Retained Stripping Percentage | Stripping Percentage | Average Retained Stripping Percentage | Secified limits as per MORTH specification table 500-8 |
|---|---|---|---|---|
| 1 | 98.5 | 1.5 | 98.3 | Minimum Retained Coating 95% |
| 2 | 98.5 | 1.5 | | |
| 3 | 98.0 | 2.0 | | |

* The results obtained are satisfactory as per standard requirements.

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Bangalore - 560 092



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# PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2021-08-17-20** **Date: 18-05-21** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Filling of Potholes in ward 07 Byatarayanapura |
| **Agency** | : | Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore -32 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/24/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 15-05-21 |
| **Type of Mix** | : | BC (Bituminous Concrete) |
| **Date of Test** | : | 15-05-21 |

**Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete**

| Property | Test | Result | Specification | Method of Test |
|---|---|---|---|---|
| Partical Shape | Flakiness Index | 12.4 | Combined Flakiness & Elongation Index for BC is Maximum 35% | IS:2386 Part I |
| | Elongation Index | 11.8 | | |
| Strength | Aggregate Impact Value | 22.1 | Maximum 24% | IS:2386 Part IV |
| Specific gravity | Specific gravity | 2.68 | Maximum 2.7 | IS:2386 Part III |
| Water Absorption | Water Absorption | 0.21 | Maximum 2% | IS:2386 Part III |

* The results obtained are satisfactory as per standard requirements.

**Note:-**

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# TESTS RESULTS ON STABILITY OF MIX

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2021-08-17-20** **Date: 18-05-21** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Filling of Potholes in ward 07 Byatarayanapura |
| **Agency** | : | Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore -32 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/24/2020-21 |
| **Source of Sample** | : | Hot Mix Plant, Bangalore |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 15-05-21 |
| **Type of Mix** | : | BC (Bituminous Concrete) |
| **Date of Test** | : | 15-05-21 |

**The results of the tests conducted on the Bituminous Concrete mix sample are as follow**

| Sl.No | Particulars of observations | TEST 1 | TEST 2 | Secified limits as per MORTH specification table 500-11 |
|---|---|---|---|---|
| 1 | Marshal Stability at 60°C, KN | 11.14 | 11.13 | 10KN(min) |
| 2 | Marshal flow at 60°C, mm | 3.52 | 3.51 | 2-4 |
| 3 | Percent air Voids | 4.82 | 4.83 | 3-5 |
| 4 | Percent Voids in mineral Aggregate(VMA %) | 14.28 | 14.26 | 13-15 |
| 5 | Percent Voids filled with Bitumen(VFB %) | 71.87 | 71.63 | 65-75 |
| 6 | Density, g/cc | 2.25 | 2.26 | – |

* The results obtained are satisfactory as per standard requirements.

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## TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
## IS 2386 (Part 1) 1963 (RA 2011 )

**Lab ID** : **CP-RW-2021-08-17-20** **Date: 22-05-21**

**Customer** : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

**Address** : Kodigehalli Sub Division, BBMP, Bangalore.

**Project Name** : Filling of Potholes in ward 07 Byatarayanapura

**Agency** : Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore -32

**Customer Reference** : BBMP/EE/BTP/WO/24/2020-21

**Source of Sample** : Sample supplied by Agency

**Date of Receipt** : 21-05-21

**Type of Mix** : BC (Bituminous Concrete)

**Date of Test** : 21-05-21

| Sl.no | Description | Index | Trail 1 | Trail 2 |
|---|---|---|---|---|
| 1 | Weight of the Sample | A | 500 | 500 |
| 2 | Weight of the sample After extraction | B | 469 | 470 |
| 3 | Bitumen percentage | $\frac{A-B}{A} \times 100$ | 6.20 | 6.00 |
| 4 | Average percentage | % | 6.1 | |

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**Lab ID** : **CP-RW-2021-08-17-20** **Date: 22-05-21**

**AFTER EXTRACTION - Trail-1**

**Total Weight of the Sample(gm)** : 469

| IS Sieve Size (mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Secified limits as per MORTH specification table 500-23(grading-2) |
|---|---|---|---|---|---|
| 19 | 0 | 0 | 0.0 | 100.0 | 100 |
| 13.2 | 2 | 2 | 0.4 | 99.6 | 90-100 |
| 9.5 | 62 | 64 | 13.6 | 86.4 | 70-88 |
| 4.75 | 110 | 174 | 37.1 | 62.9 | 53-71 |
| 2.36 | 88 | 262 | 55.9 | 44.1 | 42-58 |
| 1.18 | 29 | 291 | 62.0 | 38.0 | 34-48 |
| 0.6 | 11 | 302 | 64.4 | 35.6 | 26-38 |
| 0.3 | 46 | 348 | 74.2 | 25.8 | 18-28 |
| 0.15 | 45 | 393 | 83.8 | 16.2 | 12-20 |
| 0.075 | 55 | 448 | 95.5 | 4.5 | 4-10 |

**AFTER EXTRACTION - Trail-2**

**Total Weight of the Sample(gm)** : 470

| IS Sieve Size (mm) | Weight Retained (gm) | Comulative Weight Retained (gm) | Comulative % of Retained | Comulative % of Passing | Secified limits as per MORTH specification table 500-23(grading-2) |
|---|---|---|---|---|---|
| 19 | 0 | 0 | 0.0 | 100.0 | 100 |
| 13.2 | 2 | 2 | 0.4 | 99.6 | 90-100 |
| 9.5 | 62 | 64 | 13.6 | 86.4 | 70-88 |
| 4.75 | 112 | 176 | 37.4 | 62.6 | 53-71 |
| 2.36 | 88 | 264 | 56.2 | 43.8 | 42-58 |
| 1.18 | 29 | 293 | 62.3 | 37.7 | 34-48 |
| 0.6 | 11 | 304 | 64.7 | 35.3 | 26-38 |
| 0.3 | 46 | 350 | 74.5 | 25.5 | 18-28 |
| 0.15 | 45 | 395 | 84.0 | 16.0 | 12-20 |
| 0.075 | 55 | 450 | 95.7 | 4.3 | 4-10 |

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

# TEST REPORT ON BITUMEN

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2021-08-17-20** **Date: 13-05-21** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Filling of Potholes in ward 07 Byatarayanapura |
| **Agency** | : | Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore -32 |
| **Customer's Reference** | : | BBMP/EE/BTP/WO/24/2020-21 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 11-05-21 |
| **Sample Type** | : | Bitumen |
| **Reference to BIS codes** | : | IS: 1201-1220(1978) (Reaffirmed-2004) |
| **Date of Test** | : | 11-05-21 |

## Test Results

| Sl.no | Name of Test | Result | Requirements as per IS:73-2013 |
|---|---|---|---|
| 1 | Penetration at 25°C , in 1/10th mm | **64** | 60 to 70 |
| 2 | Softening Point, °C | **51.2** | Min. 40°C |
| 3 | Ductility, cm | **98** | Min. 75cm |
| 4 | Flash point, °C | **245** | Min. 220°C |
| | Fire point, °C | **272** | |

* The results obtained are satisfactory as per standard requirements.

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## DETERMINATION OF RATE OF SPREAD TACK COAT

| | | |
|---|---|---|
| **Lab ID** | : | **CP-RW-2021-08-17-20** **Date: 22-05-21** |
| **Customer** | : | Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore. |
| **Address** | : | Kodigehalli Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Filling of Potholes in ward 07 Byatarayanapura |
| **Agency** | : | Sri. U Ramesh, #12/4th Cross, Sunrise Colony, Cholanayakanahalli, R.T Nagar (P) Bangalore -32 |
| **Customer Reference** | : | BBMP/EE/BTP/WO/24/2020-21 |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 21-05-21 |
| **Type of Mix** | : | Tack coat |
| **Date of Test** | : | 21-05-21 |

| Sl.No | Determination | Unit | TEST 1 | TEST 2 |
|---|---|---|---|---|
| 1 | Size of Plate (mxm) | Mt | 0.30 x .30 | 0.30 x .30 |
| 2 | Area of Plate (a) | Sq.mtr | 0.09 | 0.09 |
| 3 | Initial Wt of empty Plate (b) | Kg | 0.78 | 0.748 |
| 4 | Final weight of plate after application of tack Coat ( c) | Kg | 0.803 | 0.771 |
| 5 | Weight of tack Coat (d=c-b) | Kg | 0.023 | 0.023 |
| 6 | Rate of spread of tack coat | Kg/sq.m | 0.256 | 0.256 |
| 7 | Average | Kg/sq.m | 0.256 | |
| 8 | Specified Limit | Kg/sq.m | 0.250 Kg/sq.m | |

* The results obtained are satisfactory as per standard requirements.

**Note:-**

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

**FOR CIVIL Pro.**
**R.KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

CIVIL Pro Sig..... Date..... BANGALORE

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092


*End of Report*

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